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CLAIMS

- 1. An electrolytic capacitor having a capacitor element fabricated by winding an anode electrode foil provided with anode leading means and a cathode electrode foil provided with cathode leading means via a separator and impregnating it with electrolyte solution, an outer case for housing the capacitor element, and a sealing member for sealing an open part of the outer case, characterized in that a electrolyte solution containing aluminum tetrafluoride salt is used as said electrolyte solution, and that a ceramics coating layer is formed at a contact portion with the sealing member and the cathode leading means.
- 2. An electrolytic capacitor according to claim 1, wherein the cathode leading means includes an aluminum conductor comprised of a rod member and a flat member, wherein the ceramics coating layer is formed on the rod member prior to capacitor production process.
- 3. An electrolytic capacitor according to claim 1, wherein the ceramics coating layer is formed by using a coating agent comprised of metal alcoxide ceramics one kind or two kinds or more selected from Al₂O₃, SiO₂, and ZrO₂.
- 4. An electrolytic capacitor having a capacitor element fabricated by winding an anode electrode foil provided with anode leading means and a cathode electrode foil provided with cathode leading means via a separator and impregnating it with electrolyte solution, an outer case for housing the capacitor element, and a sealing member for sealing an open part of the outer case, characterized in that a electrolyte solution containing aluminum tetrafluoride salt is used as said electrolyte solution, and that an insulating synthetic resin layer is formed at a contact portion of the cathode leading means with the sealing member.
- 5. An electrolytic capacitor according to claim 4, wherein the cathode leading means includes an aluminum conductor comprised of a rod member and a flat member, wherein the insulating synthetic resin layer is formed on the rod member prior to capacitor production process.

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- 6. An electrolytic capacitor having a capacitor element fabricated by winding an anode electrode foi, a cathode electrode foil and a separator and impregnating it with electrolyte solution, an outer case for housing the capacitor element, and a sealing member for sealing an open part of the outer case, wherein that a electrolyte solution containing aluminum tetrafluoride salt is used as said electrolyte solution, wherein a partial cross-linking peroxide butyl rubber that peroxide is added as cross-linking agent to a butyl rubber polymer comprising a copolymer of isobutylene, isoprene, and divinylbenzene is used as said sealing member.
- 7. An electrolytic capacitor obtained by impregnating a capacitor element with electrolyte solution containing an aluminum tetrafluoride salt, wherein the capacitor element is formed by wounding an anode electrode foil with a anode leading terminal and a cathode electrode foil with a cathode leading terminal together with intervening separator, housing the capacitor element in an cylindrical outer case with a bottom, and a sealing an open end of the case by a sealing member with a rivet connecting said cathode leading terminal to said outside terminal, characterized in that a ceramics coating layer is formed at a contact portion of the rivet with the sealing component.
- 8. An electrolytic capacitor obtained by impregnating a capacitor element with electrolyte solution containing an aluminum tetrafluoride salt, wherein the capacitor element is formed by wounding an anode electrode foil with a anode leading terminal and a cathode electrode foil with a cathode leading terminal together with intervening separator, housing the capacitor element in an cylindrical outer case with a bottom, and a sealing an open end of the case by a sealing member with a rivet connecting said cathode leading terminal to said outside terminal, characterized in that a ceramics coating layer is formed on said cathode leading terminal.
- 9. An electrolytic capacitor obtained by impregnating a capacitor element with electrolyte solution containing an aluminum tetrafluoride salt, wherein the capacitor element is formed by wounding an anode electrode foil with a anode leading terminal and a cathode electrode foil with a

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cathode leading terminal together with intervening separator, housing the capacitor element in an cylindrical outer case with a bottom, and a sealing an open end of the case by a sealing member with a rivet connecting said cathode leading terminal to said outside terminal, characterized in that an insulating synthetic resin is formed at a contact portion of the rivet with the sealing component.

- 10. An electrolytic capacitor obtained by impregnating a capacitor element with electrolyte solution containing an aluminum tetrafluoride salt, wherein the capacitor element is formed by wounding an anode electrode foil with a anode leading terminal and a cathode electrode foil with a cathode leading terminal together with intervening separator, housing the capacitor element in an cylindrical outer case with a bottom, and a sealing an open end of the case by a sealing member with a rivet connecting said cathode leading terminal to said outside terminal, characterized in that an insulating synthetic resin layer is formed on said cathode leading terminal.
- 11. An electrolytic capacitor according to claims 1 to 10, wherein an electrode foil subjected to a phosphate treatment is used as the cathode electrode foil or the anode electrode foil.